

FIG. 1

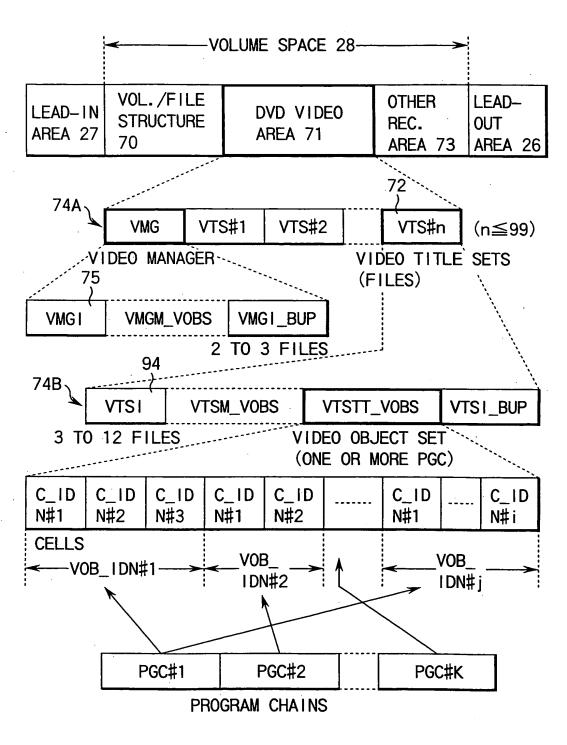


FIG. 2

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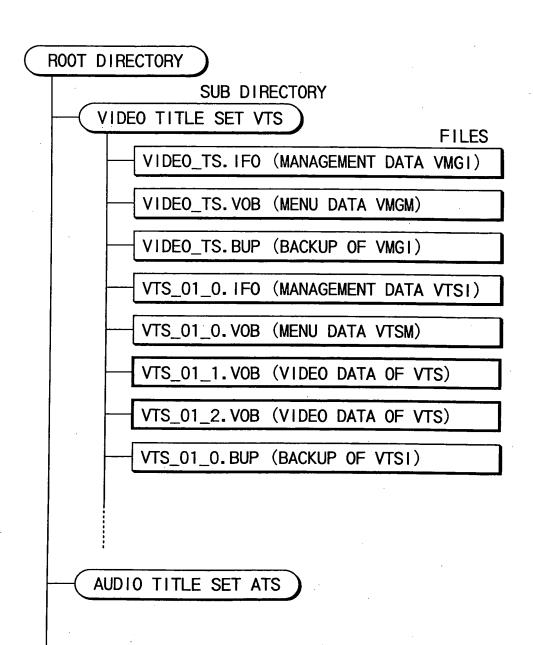
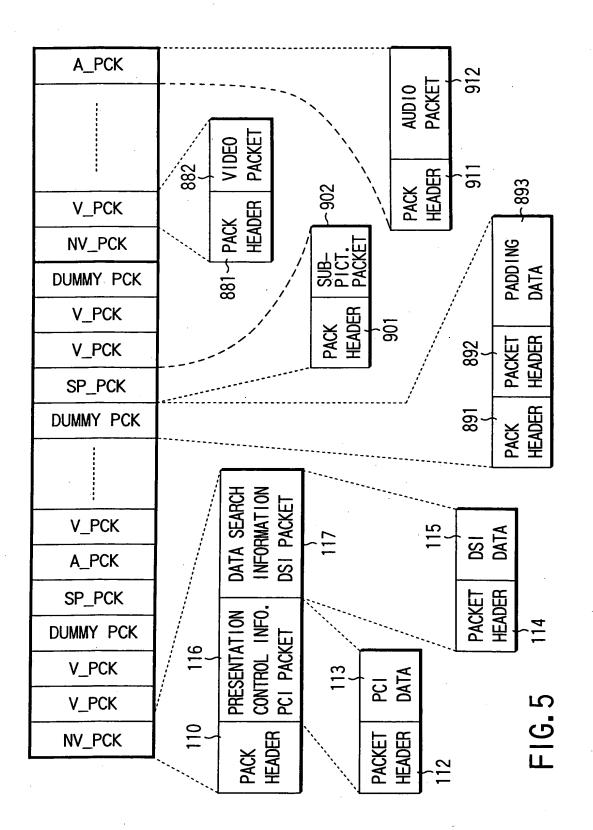


FIG. 3

				VIDEO OBJECT VOB_IDN#j		CELL (C_IDN#i)		VIDEO OBJECT UNIT VOBU		A_PCK	RE TWO TYPES OF VOBU; ONE WITH NV_PCK, & THE OTHER WITHOUT NV_PCK)
								98 98	NV_PCK	110 111	
) SBS)								DUMMY PCK	₹ %	
	» __ <u> </u>		•						V_PCK	Ř	
	(VTS						CT		V_PCK	≥	
	'0BS						VIDEO OBJECT UNIT VOBU		SP_PCK	E E	
	ET V				<u>.</u>		VIDEO OBJ UNIT VOBU		DUMMY PCK	ONE -	
	VIDEO OBJECT SET VOBS (VTSTT_VOBS)		5		CELL (C_IDN#2)					F VOBU;	
	DEO		0BJE 株2		ELL		OBUE OBU		V_PCK	ES 0	
	>		VIDEO OBJECT VOB_IDN#2		0		VIDEO OBJECT UNIT VOBU	9	A_PCK	TYP	
			N VI		(⋝ 5	8	SP_PCK	OML :	
			CT		DN#1		CT	834	DUMMY PCK	ARE	
			OBJE		_ (C_IDN#1)		OBJE VOBU		V_PCK	THERE A	
87	`	83	VIDEO OBJECT VOB_IDN#1	84	CELL	85	VIDEÓ OBJECT UNIT VOBU	88-	V_PCK		
. [> X				5 5	88-	NV_PCK	(NOTE:	

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CONTENTS OF PRESENTATION CONTROL INFORMATION PCI

SYMBOL	CONTENTS
PCI_GI	PCI GENERAL INFORMATION
NSML_AGL1	ANGLE INFO. FOR NONSEAMLESS
HLI	HIGHLIGHT INFORMATION
RECI	RECORDING INFORMATION

FIG.6

CONTENTS OF PRESENTATION CONTROL INFORMATION GENERAL INFORMATION PCI_GI

CONTENTS
LOGICAL BLOCK NUMBER OF NAVIGATION PACK
CATEGORY OF VOBU
RESERVED
USER OPERATION CONTROL OF VOBU
START PTM OF VOBU
END PTM OF VOBU
END PTM OF SEQUENCE END IN VOBU
CELL ELAPSE TIME
RESERVED

FIG. 7

94

VIDEO TITLE SET
VTS 72 (FILE 74B)

VIDEO TITLE SET
INFO. VTSI

VIDEO OBJECT SET
FOR VIDEO TITLE
SET MENU
VTSM_VOBS

VIDEO OBJECT SET
FOR VIDEO TITLE
SET TITLE
VTSTT_VOBS

BACKUP OF VIDEO
TITLE SET INFO.
VTSI_BUP

VIDEO TITLE SET INFO. MANAGEMENT TABLE VTSI MAT VIDEO TITLE SET PART OF_TITLE SEARCH POINTER TABLE VTS_PTT_SRPT VIDEO TITLE SET PROGRAM CHAIN INFORMATION TABLE VTS PGCIT VIDEO TITLE SET MENU PGCI UNIT TABLE VTSM_PGCI_UT VIDEO TITLE SET TIME MAP TABLE VTS TMAPT VIDEO TITLE SET MENU CELL ADDRESS TABLE VTSM_C_ADT VIDEO TITLE SET MENU VIDEO OBJECT UNIT ADDRESS MAP VTSM_VOBU_ADMAP VIDEO TITLE SET CELL ADDRESS TABLE VTS_C_ADT VIDEO TITLE SET VIDEO OBJECT UNIT ADDRESS MAP VTS_VOBU ADMAP

VIDEO TITLE SET INFO. VTSI 94

VIDEO IIILE SEI INFO. VISI	94
VIDEO TITLE SET INFO.	_
MANAGEMENT TABLE	
VTSI_MAT	
VIDEO TITLE SET PART_	
OF_TITLE SEARCH POINTER	
TABLE VTS_PTT_SRPT	
VIDEO TITLE SET PROGRAM	
CHAIN INFORMATION TABLE	
VTS_PGCIT	
VIDEO TITLE SET MENU	
PGCI UNIT TABLE	
VTSM_PGCIT_UT	
VIDEO TITLE SET	
TIME MAP TABLE	
VTS_TMAPT	
VIDEO TITLE SET MENU	
CELL ADDRESS TABLE	
VTSM_C_ADT	
VIDEO TITLE SET MENU	
VIDEO OBJECT UNIT	
ADDRESS MAP	
VTSM_VOBU_ADMAP	
VIDEO TITLE SET CELL	
ADDRESS TABLE	
VTS_C_ADT	
VIDEO TITLE SET VIDEO	
OBJECT UNIT ADDRESS	
MAP VTS_VOBU_ADMAP	

VIDEO TITLE SET PROGRAM CHAIN INFO. TABLE INFORMATION VTS_GCITI VIDEO TITLE SET PROGRAM CHAIN INFO. SEARCH POINTER #1 VTS_PGCI_SRP#1 VIDEO TITLE SET PROGRAM CHAIN INFO. SEARCH POINTER #n VTS_PGCI_SRP#n VIDEO TITLE SET PROGRAM CHAIN INFO. VTS_PGCI VIDEO TITLE SET PROGRAM CHAIN INFO. VTS_PGC1

STRUCTURE OF PROGRAM CHAIN INFO. PGCI

THE THE STATE OF T
PROGRAM CHAIN GENERAL INFO.
PGC_G1
PROGRAM CHAIN COMMAND TABLE
PGC_CMDT
PROGRAM CHAIN PROGRAM MAP
PGC_PGMAP
CELL PLAYBACK INFO. TABLE
C_PBIT
CELL POSITION INFO. TABLE
C_POSIT

FIG. 10

CONTENTS OF CELL PLAYBACK INFO. TABLE C_PBIT

CELL PLAYBACK INFO. #1 (C_PBI#1)	
CELL PLAYBACK INFO. #2 (C_PBI#2)	
CELL PLAYBACK INFO. #n (C_PBI#n)	

FIG. 11

CONTENTS OF CELL PLAYBACK INFORMATION C_PBI

SYMBOL	CONTENTS
C_CAT	CELL CATEGORY
C_PBTM	CELL PLAYBACK TIME
C_FVOBU_SA	START ADR. OF 1ST VOBU IN CELL
C_FILVU_EA	END ADR. OF 1ST ILVU IN CELL
C_LVOBU_SA	START ADR. OF LAST VOBU IN CELL
C_LVOBU_EA	END ADR. OF LAST VOBU IN CELL
CELL TYPE	ERASION LEVEL FLAG 00h=PLAYBACK IS PERMITTED & AUTOMATIC ERASION IS PROHIBITED 01h=PLAYBACK IS PERMITTED & AUTOMATIC ERASION IS PROHIBITED

FIG. 12

	b31 b30	CON b29 b28	ITENTS OF (b27	CELL CATEGO b26	RY C_CAT b25	b24
	CELL BLOCK MODE	CELL BLOCK TYPE	SEAMLESS PLAYBACK FLAG	INTER- LEAVED ALLOCATION FLAG	STS DISCONTI- NUITY FLAG	SEAMLESS ANGLE CHANGE FLAG
	b23	b2	22 t	o21 b2	0	b16
{	RESERVE	D CELL BACK	PLAY- ACC MODE RES	ESS TRICTION FL	_AG CI	ELL TYPE
	b15		•			b8
			CELL	STILL TIME		
	b7					b0
	CELL COMMAND NUMBER					

CONTENTS OF PROGRAM CHAIN GENERAL INFO. PGC_GI

SYMBOL	CONTENTS
PGC_CNT	PGC CONTENTS
PGC_PB_TM	PGC PLAYBACK TIME
PGC_UOP_CTL	PGC USER OPERATION CONTROL
PGC_AST_CTLT	PGC AUDIO STREAM CONTROL TABLE
PGC_SPST_CTLT	PGC SUB-PICT. STREAM CONTROL TABLE
PGC_NV_CTL	PGC NAVIGATION CONTROL
PGC_SP_PLT	PGC SUB-PICTURE PALETTE
PGC_CMDT_SA	START ADR. OF PGC COMMAND TABLE
PGC_PGMAP_SA	START ADR. OF PROGRAM MAP
C_PBIT_SA	START ADR. OF CELL PLAYBACK TABLE
C_POSIT_SA	START ADR. OF CELL POS. INFO. TABLE

FIG. 14

CONTENTS OF PGC GENERAL INFO. PGC_GI FOR TRASH PGC

SYMBOL	CONTENTS
PGC_CNT	PGC CONTENTS
PGC_PB_TM	PGC PLAYBACK TIME
PGC_UOP_CTL	PGC USER OPERATION CONTROL
PGC_AST_CTLT	PGC AUDIO STREAM CONTROL TABLE
PGC_SPST_CTLT	PGC SUB-PICT. STREAM CONTROL TABLE
PGC_NV_CTL	PGC NAVIGATION CONTROL
PGC_SP_PLT	PGC SUB-PICTURE PALETTE
PGC_CMDT_SA	START ADR. OF PGC COMMAND TABLE
PGC_PGMAP_SA	START ADR. OF PROGRAM MAP
C_PBIT_SA	START ADR. OF CELL PLAYBACK TABLE
C_POSIT_SA	START ADR. OF CELL POS. INFO. TABLE
TRASH_PGC_FLG	TRASH PGC FLAG 01h=TRASH PGC 00h=CONVENTIONAL PGC

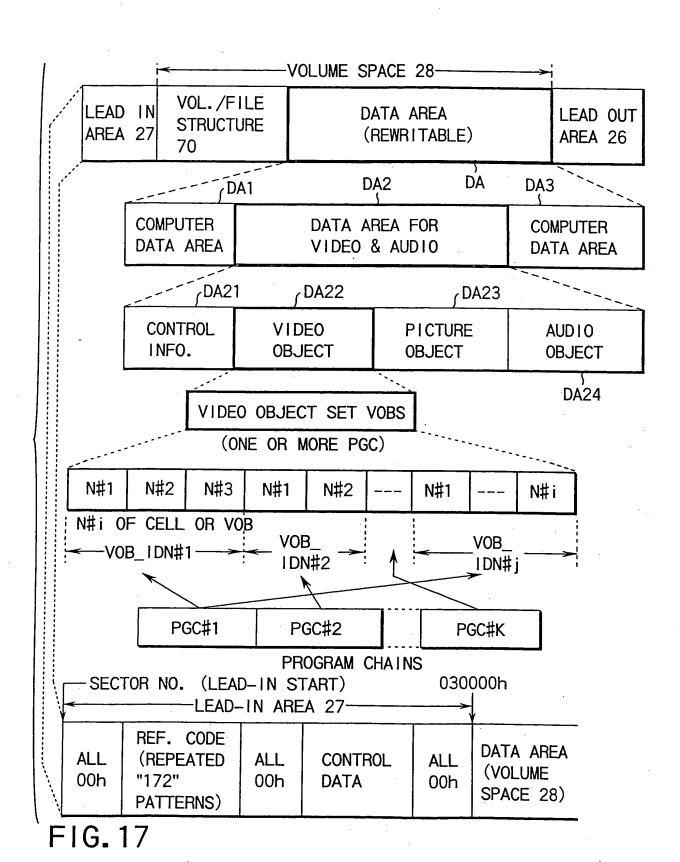
FIG. 15

CONTENTS OF C_PBI FOR TRASH PGC

SYMBOL	CONTENTS
C_CAT	PGC CATEGORY
C_PBTM	PGC PLAYBACK TIME
C_FV0BU_SA	START ADR. OF 1ST VOBU IN CELL
C_FILVU_EA	END ADR. OF 1ST ILVU IN CELL
C_LV0BU_SA	START ADR. OF LAST VOBU IN CELL
C_LV0BU_EA	END ADR. OF LAST VOBU IN CELL
PGC_N	ORIGINAL PGC NUMBER OF CURRENT CELL
C_ID_N	CORRESPONDING CELL NUMBER OF ORIGINAL PGC

FIG. 16

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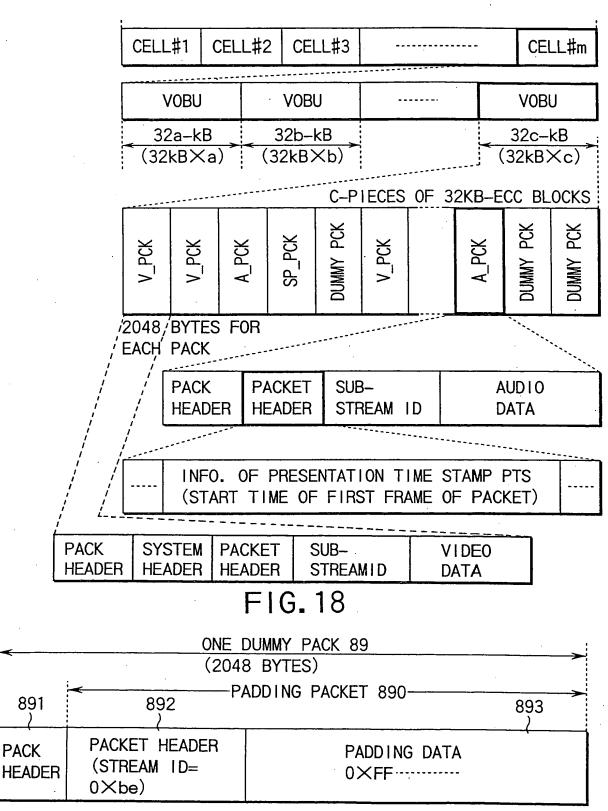


FIG. 19

PACK

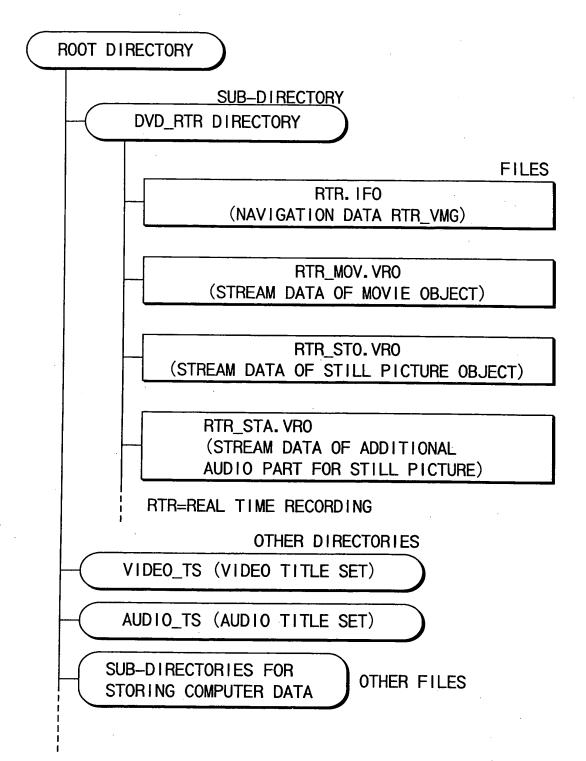


FIG. 20

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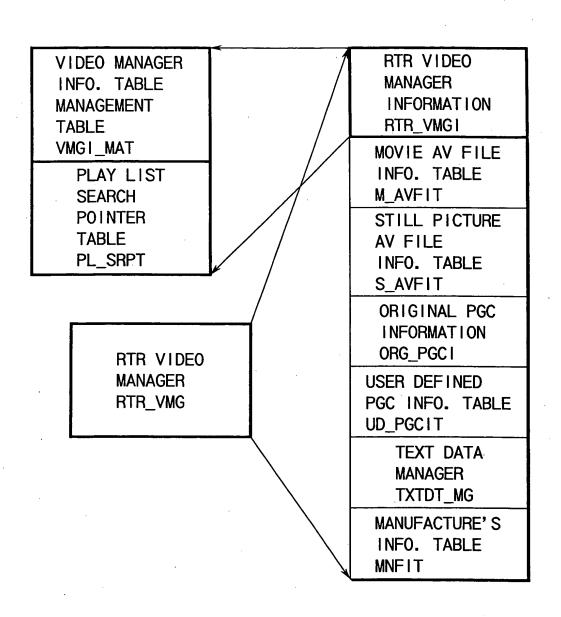


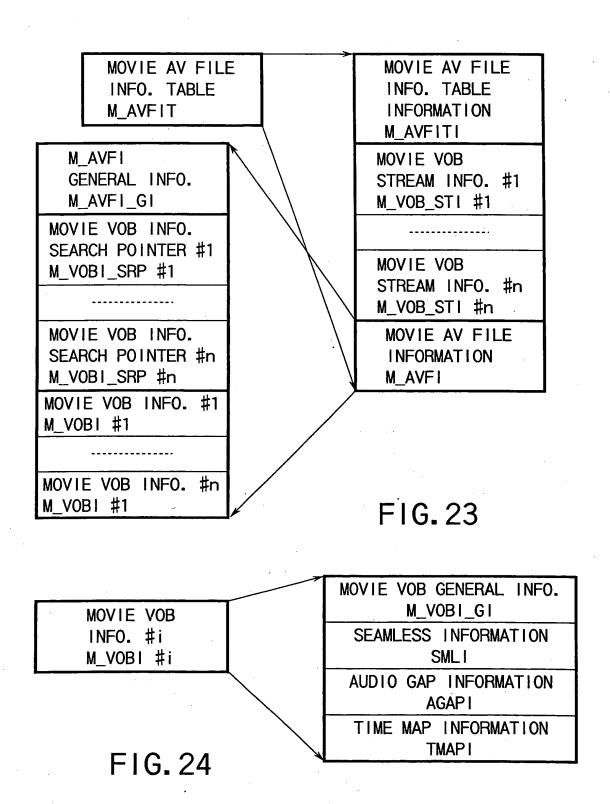
FIG. 21

CONTENTS OF VMGI_MAT

1	
FIELD NAME	CONTENTS
VMG_ID	VMG IDENTIFIER
RTR_VNG_EA	END ADDRESS OF RTR_VMG
RESERVED	RESERVED
VMGI_EA	END ADDRESS OF VMGI
VERN	VERSION NUMBER OF DVD SPEC. FOR VIDEO RECORDING
RESERVED	RESERVED
TM_ZONE	TIME ZONE
STILL_TM	STILL TIME FOR STILL PICTURES
CHRS	CHARACTER SET CODE FOR PRIMARY TEXT
RSM_MRK1	RESUME MARKER INFORMATION
REP_PICTI	DISC REPRESENTATIVE PICTURE INFORMATION
RESERVED	RESERVED
M_AVFIT_SA	START ADDRESS OF M_AVFIT
S_AVFIT_SA	START ADDRESS OF S_AVFIT
RESERVED	RESERVED
ORG_PGCI_SA	START ADDRESS OF ORG_PGC1
UD_PGCIT_SA	START ADDRESS OF UD_PGCIT
TXTDT_MG_SA	START ADDRESS OF TXTDT_MG
MNFIT_SA	START ADDRESS OF MNFIT
RESERVED	RESERVED

FIG. 22

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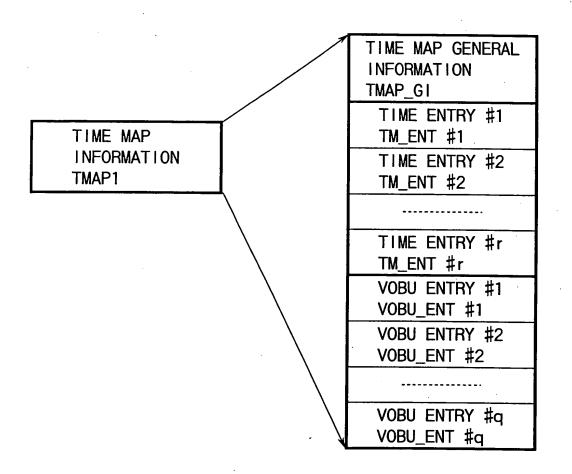


FIG. 25

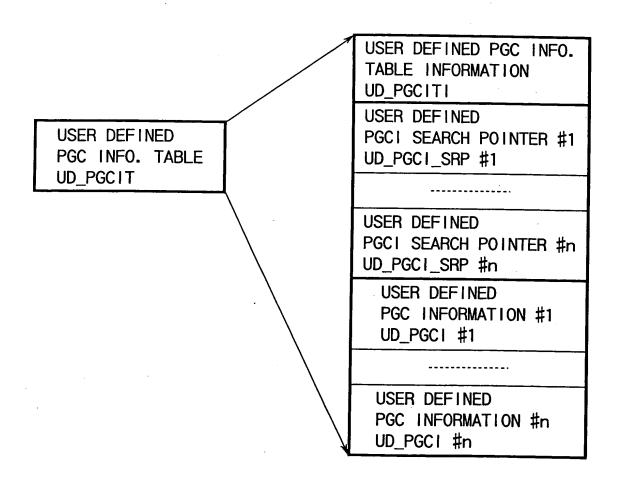


FIG. 26

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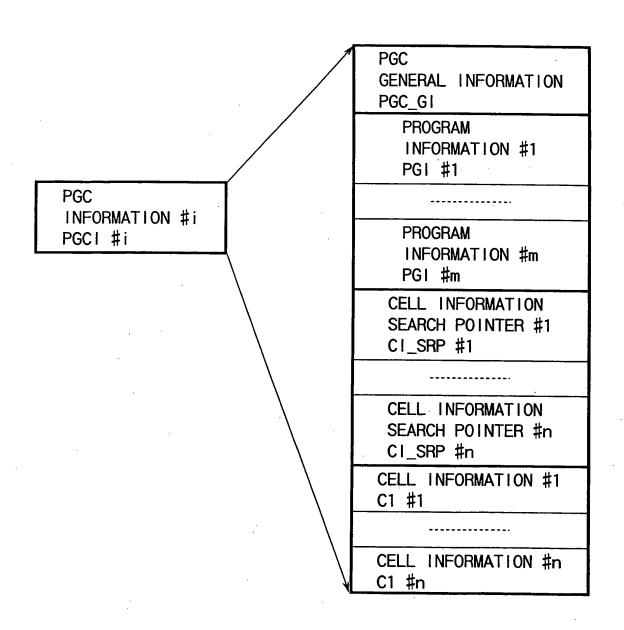


FIG. 27

CONTENTS OF PGC_GI

FIELD NAME	CONTENTS
RESERVED	RESERVED
PG_Ns	NUMBER OF PROGRAMS
CI_SRP_Ns	NUMBER OF CI SEARCH POINTERS
TRASH_PGC_FLG	TRASH PGC FLAG 01h=TRASH PGC 00h=CONVENTIONAL PGC

FIG. 28

CONTENTS OF PGI

FIELD NAME	CONTENTS	
RESERVED	RESERVED	
PG_TY	PROGRAM TYPE	
C_Ns	NUMBER OF CELLS IN PROGRAM	
PRM_TXT1	PRIMARY TEXT INFORMATION	
IT_TXT_SRPN	I TEM TEXT SRP NUMBER	
THM_PTR1	THUMBNAIL POINTER INFORMATION	

FIG. 29

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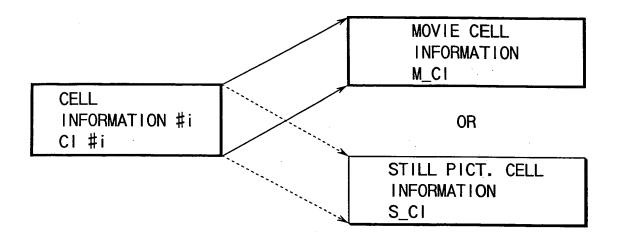


FIG. 30

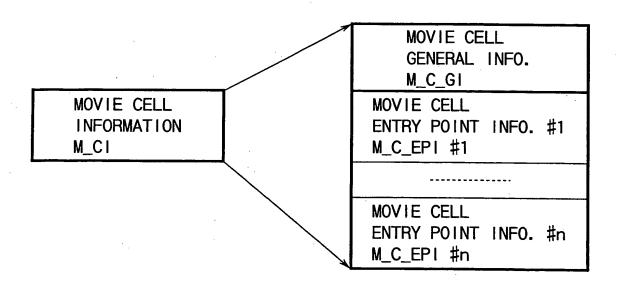


FIG. 31

CONTENTS OF M_C_GI

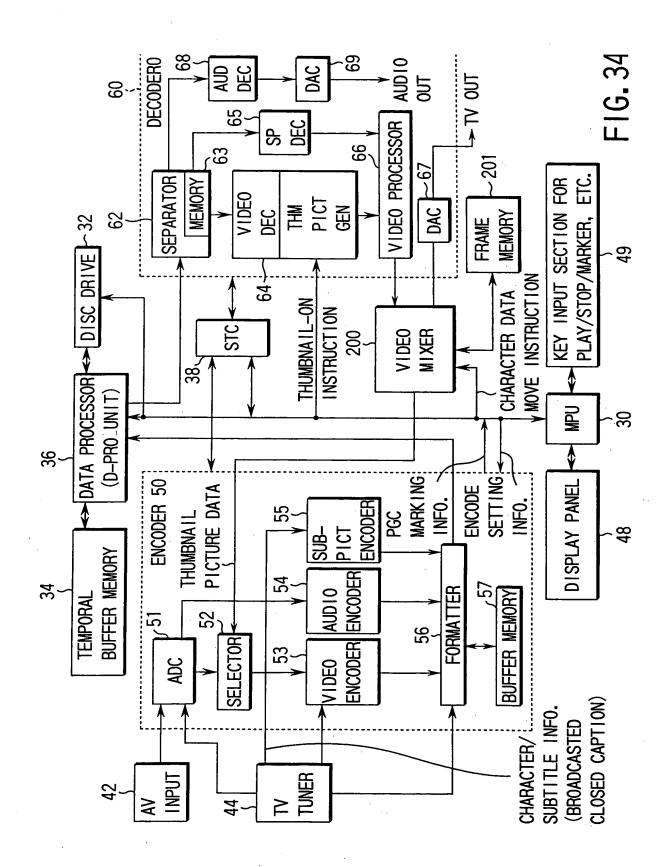
FIELD NAME	CONTENTS	
RESERVED	RESERVED	
C_TY	CELL TYPE	
M_VOBI_SRPN	MOVIE VOBI SRP NUMBER	
C_EPI_Ns	NUMBER OF CELL ENTRY POINT INFO.	
C_V_S_PTM	_PTM PRESENTATION START TIME OF CELL	
C_V_E_PTM	PRESENTATION END TIME OF CELL	

FIG. 32

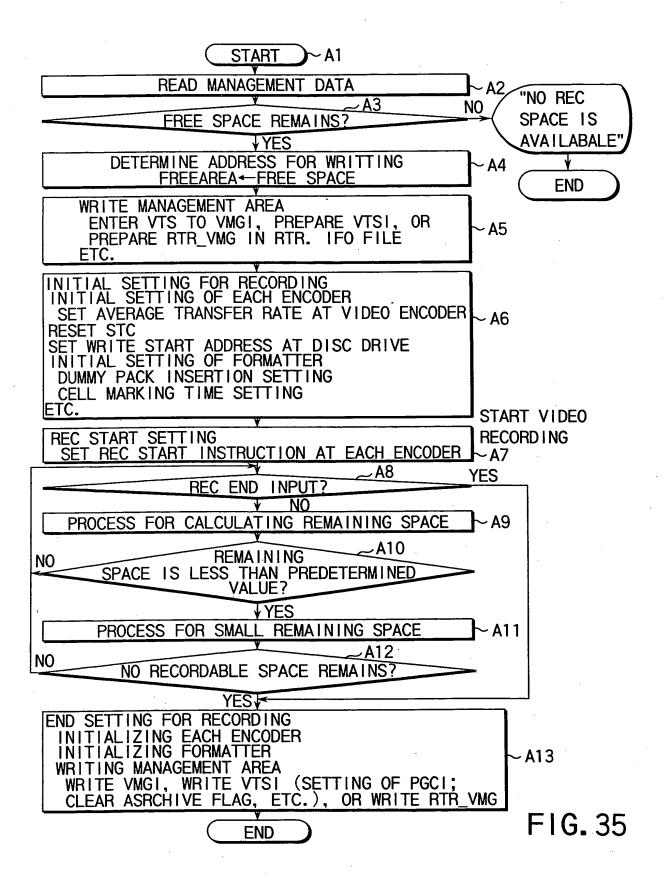
CONTENTS OF M_C_EPI

	FIELD NAME	CONTENTS			
	EP_TY	ENTRY POINT TYPE			
	EP_PTM	PTM OF ENTRY POINT			
	PRM_TXT1	PRIMARY TEXT INFORMATION			
ERASION LEVEL FLAG		INFORMA	TION TYPE		
TRASH PGC INFORMATION		INFORMA	TION DATE		
ORIGINAL PGC NUMBER PGC_N & CORRESPONDING CELL NUMBER C_ID N OF		(CONTEN	TER INFO.		
	INAL PGC)				

FIG. 33

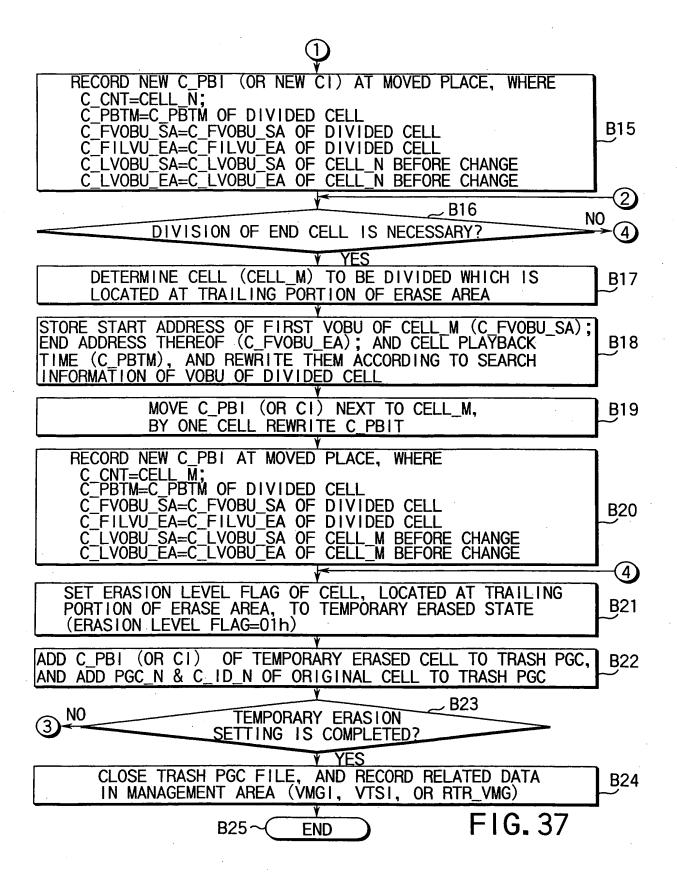


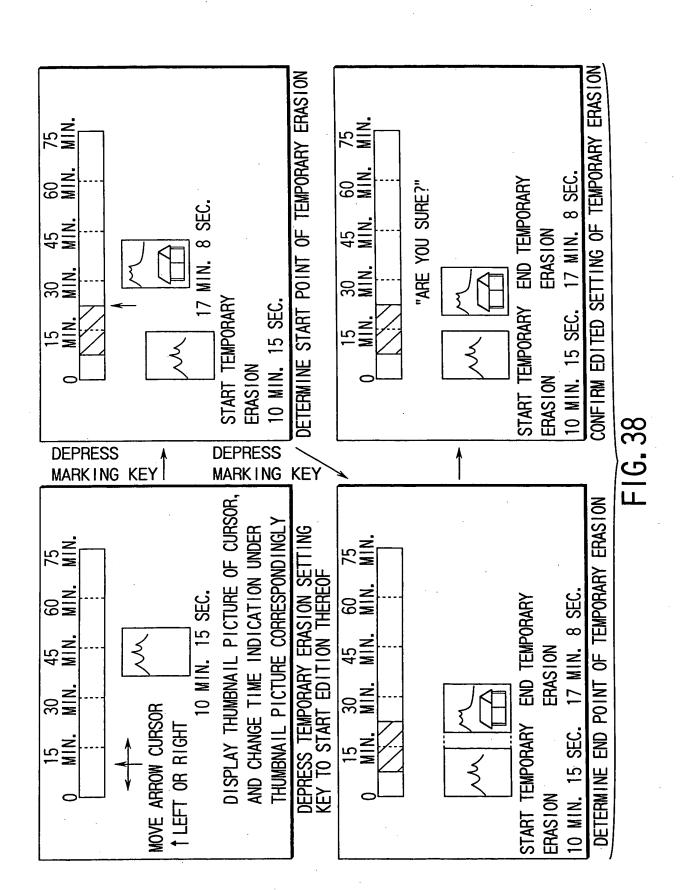
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B1 ^ START - DEPRESS ERASION KEY YES TRASH PGC EXISTS? **VNO** PREPARE FILE OF TRASH PGC ·B3 SELECT TITLE **-B4** DISPLAY CURSOR AND TIME BAR -B5 CORRESPONDING TO PLAYBACK TIME OF TITLE DISPLAY LEADING I-PICTURE OF VOBU AS THUMBNAIL PICTURE, WHEREIN CURSOR MOVEMENT CAUSES TO CHANGE THUMBNAIL PICTURE IN CORRESPONDENCE WITH PLAYBACK <u>TIME. SELECT PICTURE OF START OF ERASION</u> SELECT PICTURE IN PGC USING CURSOR KEYS **B6** MOVE SELECTED PICTURE DOWNWARD, AND -B7 STORE START ADDRESS OF SELECTED VOBU SELECT PICTURE IN PGC USING CURSOR KEYS -B8 MOVE SELECTED PICTURE DOWNWARD, AND -B9 STORE START ADDRESS OF SELECTED VOBU SELECT PICTURE OF END OF ERASION NG CONFIRM SELECTION B10 **▼0.** K NO DIVISION OF START CELL IS NECESSARY **VYES B12** DETERMINE CELL (CELL N) TO BE DEVIDED WHICH IS LOACATED AT LEADING PORTION OF ERASE AREA STORE START ADDRESS OF END VOBU OF CELL N (C LVOBU SA): B13 END ADDRESS THEREOF (C_LVOBU_EA); AND CELL PLAYBACK TIME (C PBTM), AND REWRITE THEM ACCORDING TO SEARCH INFORMATION OF VOBU OF DIVIDED CELL **B14** MOVE C_PBI (OR CI) NEXT TO CELL_N, BY ONE CELL REWRITE C PBIT FIG. 36

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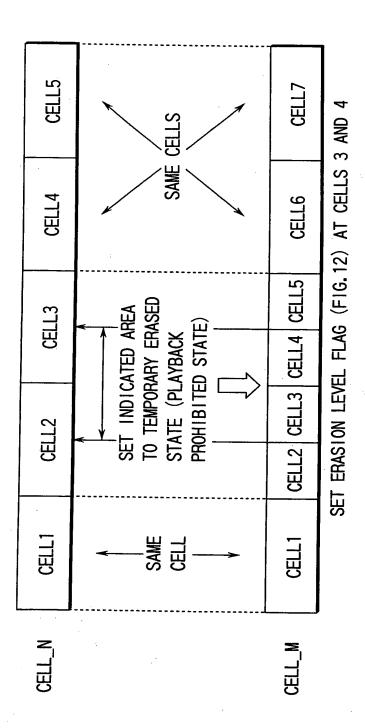
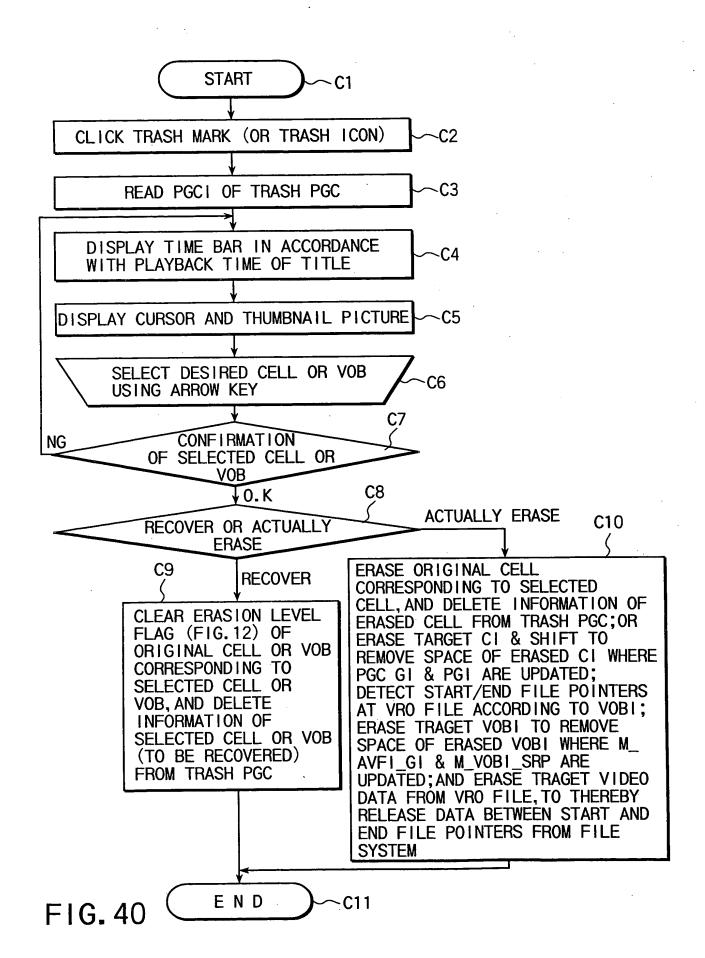
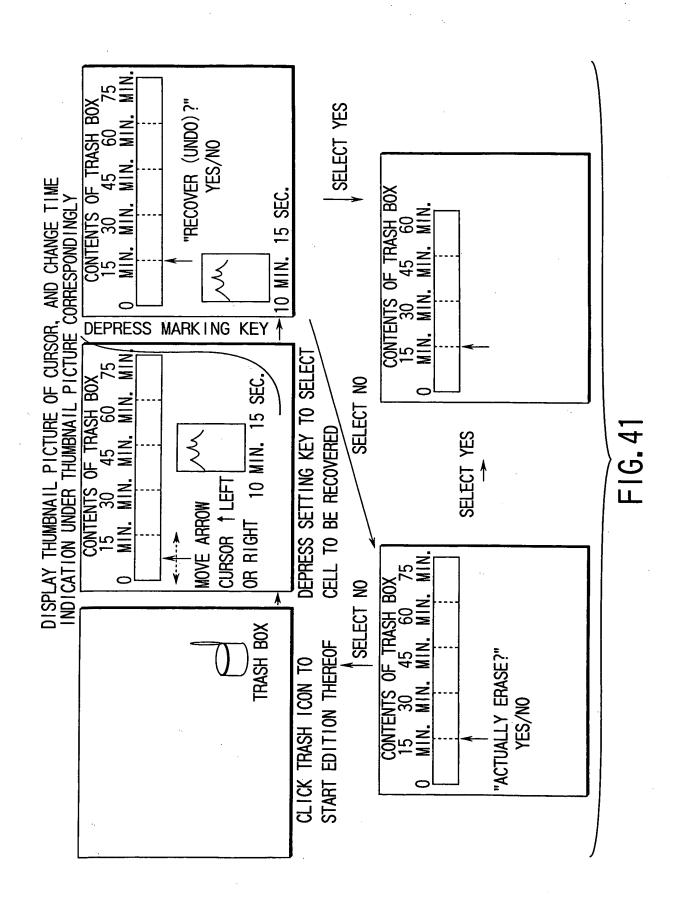
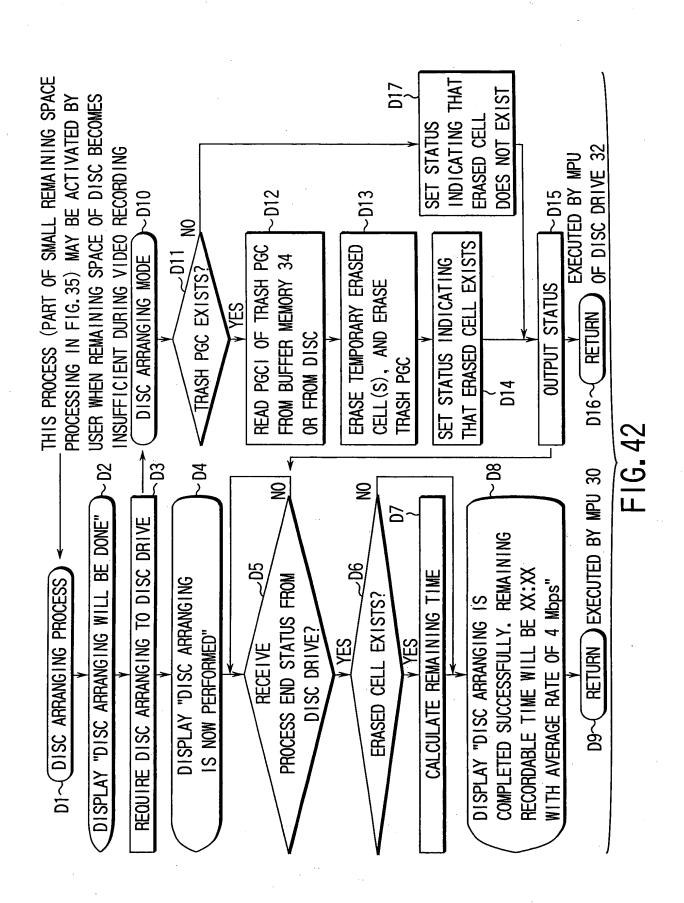


FIG. 39









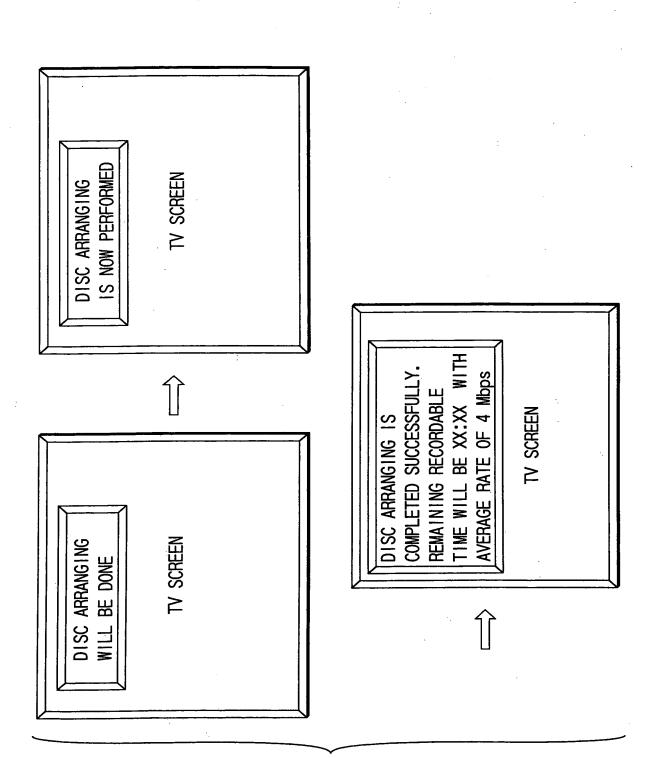
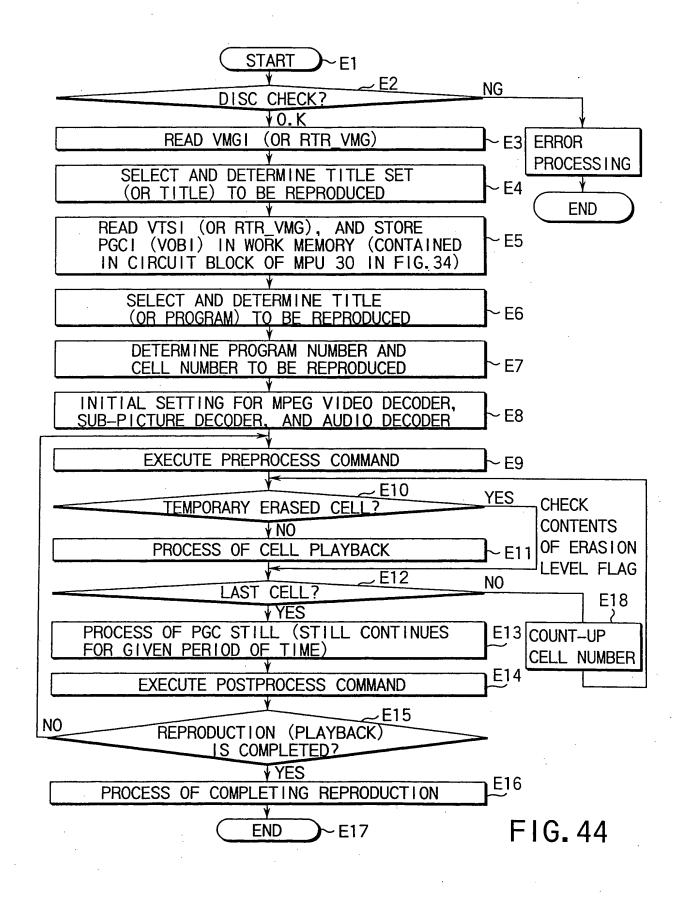
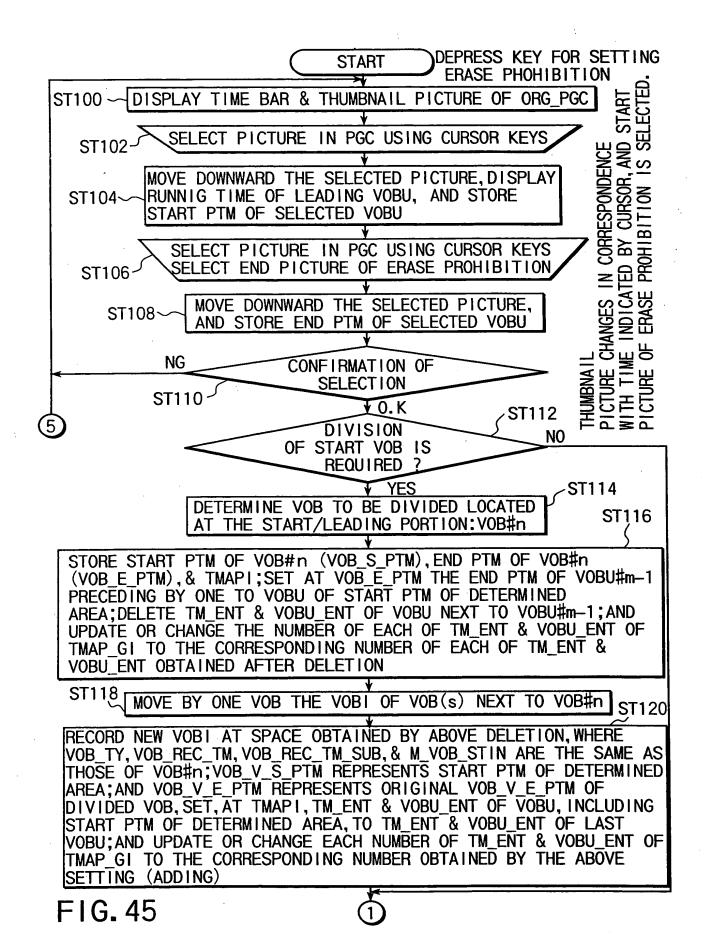
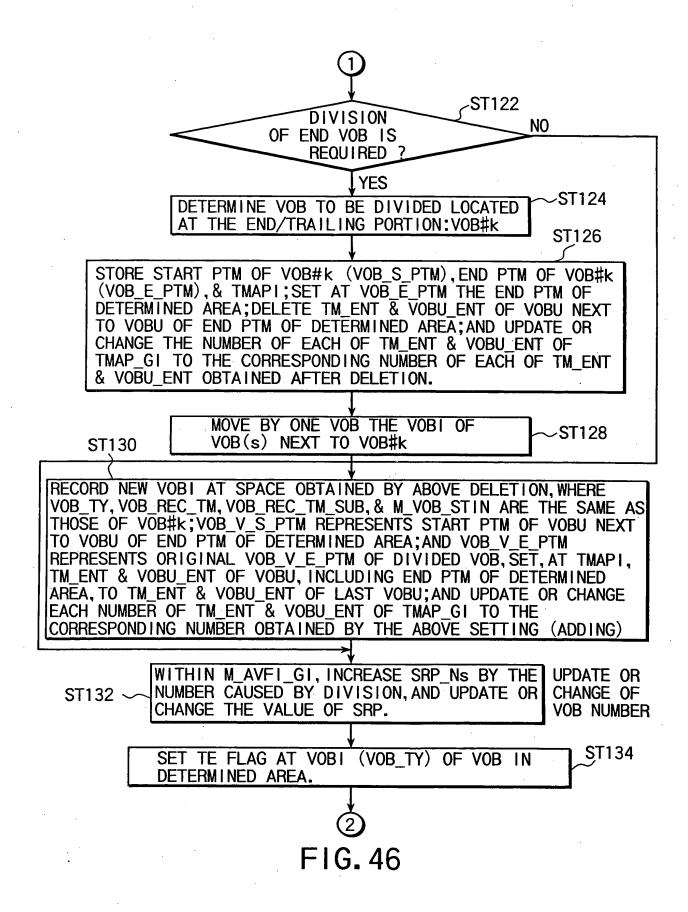


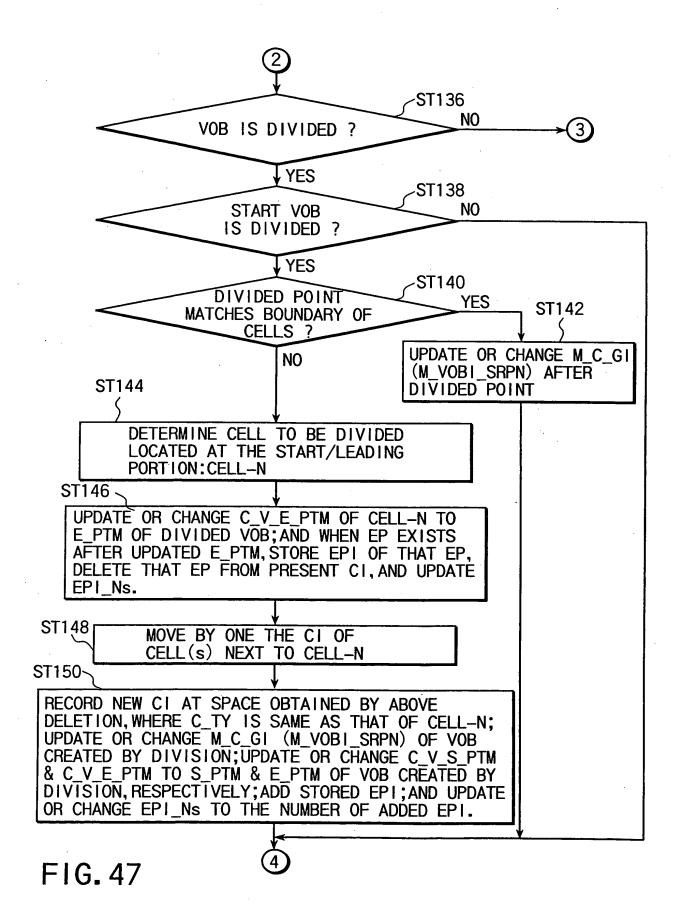
FIG. 43

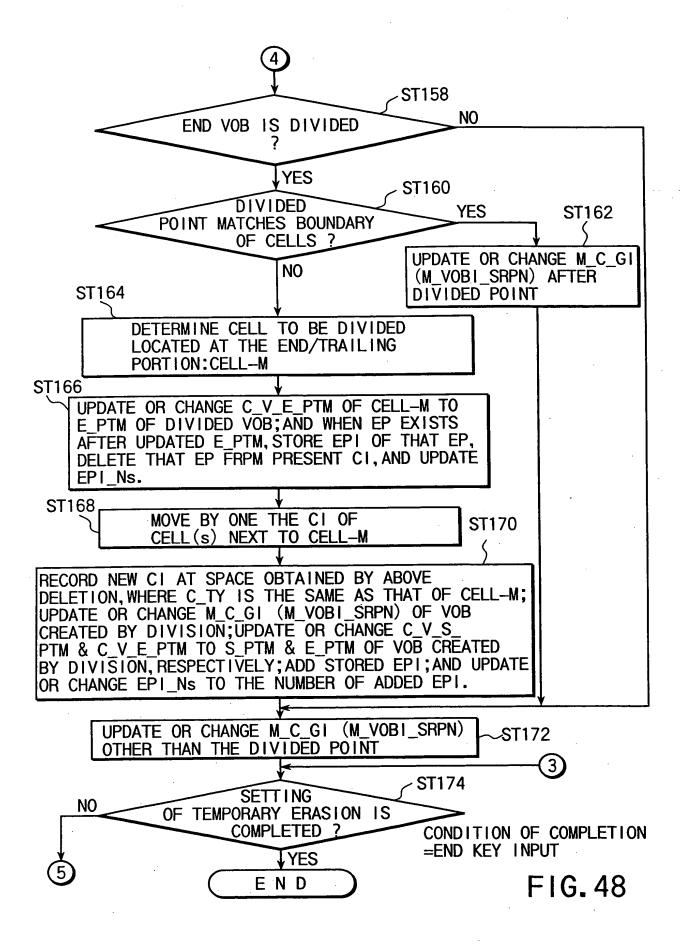




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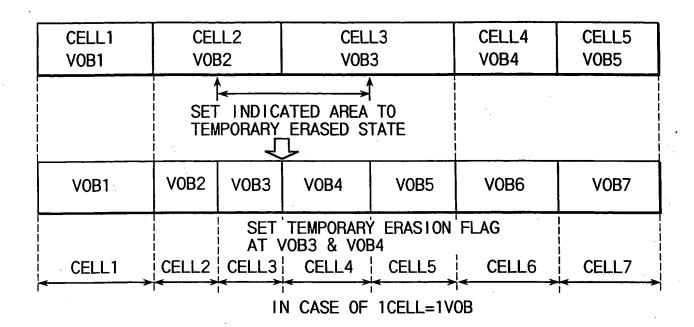


FIG. 49

CELL2 | CELL3 | CELL4 | CELL5 CELL1 CELL6 CELL7 VOB1 VOB2 VOB3 **V0B4** VOB5 SET INDICATED AREA TO TEMPORARYB ERESED STATE VOB2 VOB3. VOB6 VOB7 **V0B1** VOB4 VOB5 SET TEMPORARY ERASION FLAG AT VOB3 & VOB4 CELL1 CELL2 CELL3 CELL4 CELL5 CELL6 CELL7

FIG. 50

IN CASE OF 1CELL≠1VOB